

Serial No.: 09/904,175  
Filing Date: July 11, 2001

# 1634  
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PATENT  
Attorney Docket No. A-68718-3 (463037-219)/RFT/RMS/RMK

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

DUONG, et al.

Serial No.: 09/904,175

Filed: July 11, 2001

For: *Devices and Methods for  
Biochip Multiplexing*

Group No. 1634

Examiner: Betty J. Forman

CERTIFICATE OF MAILING

I hereby certify that this correspondence and its listed enclosures are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: BOX NON-FEE AMENDMENT, Commissioner for Patents, Washington, DC 20231 on:

Date: October 16, 2002  
Signature Mary M. McFarland  
Mary McFarland

**RESPONSE TO RESTRICTION REQUIREMENT**

BOX NON-FEE AMENDMENT  
Commissioner for Patents  
Washington, DC 20231

Sir:

This paper is submitted in response to the Restriction Requirement mailed September 17, 2002. The response is filed on or before October 17, 2002, making this a timely filed response. The Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2319 (Order No. A-68718-3 (463037-219)/RFT/RMS/RMK).

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In response to the outstanding Restriction Requirement in this application, Applicants restrict the claims for further prosecution to the claims of Invention 1, claims 1-9, drawn to a biochip cartridge. This election is made without traverse.

Please amend the above identified application as follows:

**In the Claims:**

Please cancel claims 10-23 without prejudice or disclaimer as drawn to a non-elected invention.

**REMARKS**

Claims 1-9 are pending. Claims 10-23 have been cancelled without prejudice or disclaimer as drawn to a non-elected invention. An Appendix of Pending Claims is attached for the Examiner's convenience.

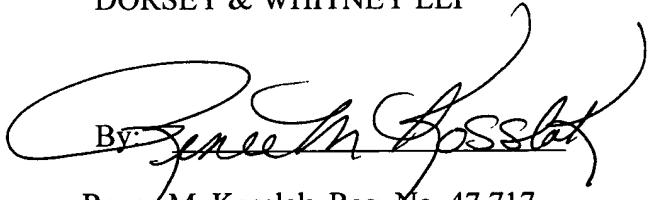
Attached hereto is a marked-up version of the changes made to the claims by the "Amendment". The attached page is captioned "**Version with markings to show changes made.**"

Please direct further questions in connection with this Application to the undersigned at (415) 781-1989.

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Respectfully submitted,  
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Dated: 10/16/02

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

Claims 10-23 have been cancelled.

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**Appendix of Pending Claims**

1. A biochip cartridge comprising:
  - a) a reaction chamber comprising:
    - i) a substrate comprising an array of electrodes, each comprising:
      - A) a self-assembled monolayer; and
      - B) a capture binding ligand;
    - II) an inlet port for the introduction of reagents; and
  - b) interconnects to allow the electrical connection of said electrodes to a processor.
2. A biochip cartridge according to claim 1 wherein said capture binding ligands are capture probes.
3. A biochip cartridge according to claim 1 wherein said reaction chamber further comprises a gasket to retain fluid in contact with said array.
4. A biochip cartridge according to claim 1 further comprising a seal on said inlet port.
5. A biochip cartridge according to claim 1 wherein said reaction chamber further comprises an outlet port.
6. A biochip cartridge according to claim 1 wherein said reaction chamber is configured to minimize the introduction or retention of air bubbles upon introduction of a sample.
7. A biochip cartridge according to claim 1 wherein said array is on one surface of said substrate.
8. A biochip cartridge according to claim 1 wherein two surfaces of said substrate each comprise an array.
9. A biochip cartridge according to claim 1 further comprising a cap comprising at least one storage well comprising assay reagents.